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of collection of information unless it alsolays a valid OMB control number. Under the Paperwork Reduction Act of 1995, no persons are regulared to respond to Patent Number 6,185,707 B1 TRANSMITTAL ISSUE Dale February 6, 2001 First Named Inventor **FORM** Shawn Smith Art Unit Examiner Name Albert De Cady (to be used for all correspondence after initial filing) Attorney Ducket Number Total Number of Pages in This Submission 014823-116 **ENCLOSURES** (Check all that apply) After Allowance Communication to TC Fee Transmittal Form Drawing(s) Appeal Communication to Board Fee Attached Licensing-related Papers of Appeals and Interferences Appeal Communication to TC Petition Amendment/Reply (Appeal Notice, Brief, Reply Brief) Petition to Convert to a After Final Proprietary Information Provisional Application Power of Attorney, Revocation Affidavits/declaration(s) Change of Correspondence Address Status Letter Other Enclosure(s) (please Identify Terminal Disclaimer Extension of Time Request below): Statement under 37 CFR 3.73(b) (7 pages) Request for Refund Express Abandonment Request CD, Number of CD(s) Information Disclosure Statement Landscape Table on CD Certified Copy of Priority Remarks Document(s) Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Name Law Office of Michael O. Scheinberg Signature Printed name Michael O. Scheinberg Date August 1, 2005 Reg. No. 36.919 CERTIFICATE OF TRANSMISSION/MAILING I hereby centify that this correspondence is being factimile transmilled to the USPTO or deposited with the United States Postal Service with Commissioner for Palents, P.O. Box 1450, Alexandria, VA 22313-1450 on sufficient postage as first class mail in an envelope addressed to the date shown below: Signature Date Typed or printed name Kathy Schoen August 1, 2005

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|--|---|
| Patent Number                            | 6,185,707                                   |
| Issue Date                               | February 6, 2001                            |
| First Named Inventor                     | Shawn Smith                                 |
| Art Unit                                 | N/A   |
| Examiner Name                            | Albert De Cady                              |
| Attorney Docket Number                   | 014823-116                                  |

|   |  | · <u> </u>                |                                       |  |
|---|--|---------------------------|---------------------------------------|--|
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|   | ord of the entire interest. See 37 C<br>r 37 CFR 3.73(b) is enclosed. (For | n PTO/SB/96)              |                                       |  |
| 0:  | SIGNATURE of Applicant   | or Assignee of            | Record                                | -                                      |
| Signature 27  | 211  |                           |                                       |  |
| Name Bradley J. 1   |  |                           | 1                                     |  |
| Date 7/10   | 1051   | Telephone                 | (503) 726-75                          | ·· · · · · · · · · · · · · · · · · · · |
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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of Information unless it displays a valid OMB control number. STATEMENT UNDER 37 CFR 3.73(b) Applicant/Patent Owner: FEI Company Application No./Patent No.: \_6,185,707 B1 Filed/Issue Date: February 6, 2001 Entitled: IC TEST SOFTWARE SYSTEM FOR MAPPING LOGICAL FUNCTIONAL TEST DATA OF LOGIC INTEGRATED CIRCUITS TO PHYSICAL REPRESENTATION Corporation **FEI Company** (Type of Assignes, e.g., corporation, partnership, university, government agency, etc.) (Name of Assignee) states that it is: 1. the assignee of the entire right, title, and interest; or an assignee of less than the entire right, title and interest. The extent (by percentage) of its ownership interest is\_ in the patent application/patent identified above by virtue of either: A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded \_\_, or for which a copy in the United States Patent and Trademark Office at Reel \_\_ , Frame \_ thereof is attached. OR B. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown below: Electroglas, Inc. Knights Technology, Inc. To: From: The document was recorded in the United States Patent and Trademark Office at \_\_, or for which a copy thereof is attached. Reel 014805 Frame 0440 Knights Technology, Inc. Shawn Smith To: 2. From: The document was recorded in the United States Patent and Trademark Office at 0549 \_, or for which a copy thereof is attached. 009743 , Frame Texas instruments inc. Hari Balachandran and Jason Parker To: The document was recorded in the United States Patent and Trademark Office at \_\_\_\_, or for which a copy thereof is attached. 0608 009733 \_\_\_\_, Frame \_ Additional documents in the chain of title are listed on a supplemental sheet. Opies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.081 The undersigned (whose title supplied below) is authorized to act on behalf of the assignee. 7/19/05 Date Signature (503) 726-7500 Bradley J. Thies Telephone Number Printed or Typed Name Vice President/General Counsel

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Title

PTO/SB/96 (09-04)

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U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. STATEMENT UNDER 37 CFR 3.73(b) Applicant/Patent Owner: FEI Company Application No./Patent No.: 6.185,707 B1 Filed/Issue Date: February 6, 2001 Entitled: IC TEST SOFTWARE SYSTEM FOR MAPPING LOGICAL FUNCTIONAL TEST DATA OF LOGIC INTEGRATED CIRCUITS TO PHYSICAL REPRESENTATION Corporation FEI Company (Name of Assignes) (Type of Assignee, e.g., corporation, partnership, university, government agency, etc.) states that it is: 1. the assignee of the entire right, title, and interest; or 2. an assignee of less than the entire right, title and interest. The extent (by percentage) of its ownership interest is\_ in the patent application/patent identified above by virtue of either: A. An assignment from the inventor(s) of the patent application/patent identified above. The assignment was recorded in the United States Patent and Trademark Office at Reel \_\_\_ \_, Frame \_\_ \_, or for which a copy thereof is attached. A chain of title from the inventor(s), of the patent application/patent identified above, to the current assignee as shown B.[₹] below: **FEI Company** Electroglas, Inc. 1. From: To: The document was recorded in the United States Patent and Trademark Office at Reel 014805 Frame 0456 \_\_, or for which a copy thereof is attached. FEI Company Knights Technology, Inc. To: 2. From: The document was recorded in the United States Patent and Trademark Office at Reel 014066 , Frame 0082 \_, or for which a copy thereof is attached. To: The document was recorded in the United States Patent and Trademark Office at \_, or for which a copy thereof is attached. \_\_\_\_\_\_, Frame Reel Additional documents in the chain of title are listed on a supplemental sheet. Opies of assignments or other documents in the chain of title are attached. [NOTE: A separate copy (i.e., a true copy of the original assignment document(s)) must be submitted to Assignment Division in accordance with 37 CFR Part 3, if the assignment is to be recorded in the records of the USPTO. See MPEP 302.08] The undersigned (whose title is supplied below) is authorized to act on behalf of the assignee. Signature Date (503) 726-7500 Bradley J. Thies Printed or Typed Name Telephone Number

This collection of Information is required by 37 CFR 3.73(b). The Information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application from to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Palent and Trademerk Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Vice President/General Counsel
Title



### (12) United States Patent Smith et al.

(10) Patent No.:

US 6,185,707 B1

(45) Date of Patent:

Feb. 6, 2001

### (54) IC TEST SOFTWARE SYSTEM FOR MAPPING LOGICAL FUNCTIONAL TEST DATA OF LOGIC INTEGRATED CIRCUITS TO PHYSICAL REPRESENTATION

(75) Inventors: Shawn Smith, Austin; Harl Balachandran, Dallas; Jason Parker,

Coppeli, all of TX (US)

(73) Assignee: Knights Technology, Inc., Sunnyvale,

CA (US)

Under 35 U.S.C. 154(b), the term of this (\*) Notice:

patent shall be extended for 0 days.

(21) Appl. No.: 09/192,164

Nov. 13, 1998 (22) Filed:

(51) Int. Cl. 7 ...... ...... G01R 31/28 714/733

(58) Field of Search 714/733, 737, 714/26, 723, 724; 382/145, 149, 151, 168; 250/559.4, 559.45; 356/237.4; 702/35, 84; 700/79, 182; 324/614, 752, 500, 73.1, 754;

438/10, 17, 975

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|-----------|---|---------|----------------|----------|
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| 6,091,846 | • | 7/2000  | Lin et al      | 382/145  |
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Burdick, W.; Duam, W., "High yield multichip modules based on minimal IC pretest", Test Conference, 1994. Procecdings, International, pp. 30-40."

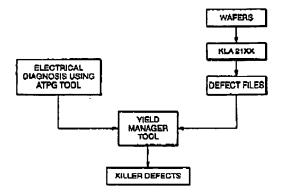
(List continued on next page.)

Primary Examiner-Albert De Cady Assistant Examiner-Guy Lamarre (74) Attorney, Agent, or Firm-Burns Dosne Swecker & Mathis LLP.

#### ABSTRACT (57)

The present invention, generally speaking, takes advantage of the foregoing capability to determine and display the X,Y location corresponding to a net name, by translating functional test data of a digital logic chip passed through a simulation model which identifies one or more defective nets of the chip. The defective nets are processed against a database of the foregoing type to obtain X,Y coordinate data for these nets, allowing them to be data logged as physical traces on the chip layout. In accordance with an exemplary embodiment, this mapping is performed by taking the output from a functional tester and translating it from a list of failed scan chains into a list of suspected netlist nodes. The X,Y coordinates of suspected netlist nodes are then identified and stored in a database, providing failure analysis and yield enhancement engineers a starting point for performing failure analysis and for immediately understanding whether "in-line" inspection data can account for a given failure. These nodes may then be crossmapped from the circuit design onto the chip's layout for each of multiple photomask layers within the design. Detailed failure data is gathered and stored at the wafer stage as part of a comprehensive program rather than on an as-needed basis at the packaged part stage. A voluminous amount of high-quality data is therefore obtained in an entirely automated fashion, as opposed to obtaining a comparatively minuscule amount of lesser-quality data in an exceedingly laborious fashion.

### 9 Claims, 9 Drawing Sheets







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## PATENT APPLICATION INFORMATION RETRIEVAL



Search results as of: 7-1-2005::15:5:11 E.T.

|  | Search results for p            | patent number: 6,             | 185,707                        |
|--|---------------------------------|-------------------------------|--------------------------------|
| Application Number:  | 09/192,164                      | Customer Number;              | -                              |
| Filing or 371(c)<br>Date:  |                                 | Status:                       | Patented Case                  |
| Application<br>Type:   | Utility                         | Status Date:                  | 01-19-2001                     |
| Examiner Name:   | LAMARRE, GUY J                  | Location:                     | FILE REPOSITORY<br>(FRANCONIA) |
| Group Art Unit:  | 2784                            | Location Date:                | 03-23-2004                     |
| Number:  | J <sup>9440</sup>               | Earliest Publication<br>No:   | -                              |
| Attorney Docket<br>Number:   |                                 | Earliest Publication<br>Date: | •                              |
| Class/ Sub-<br>Class;  | 714/724                         | Patent Number:                | 6,185,707                      |
| First Named<br>Inventor:   | SHAWN SMITH, AUSTIN,<br>TX (US) | Issue Date of Patent:         | 02-06-2001                     |
| Title Of TEST SOFTWARE SYSTEM FOR MAPPING LOGICAL FUNCTIONAL Invention: REPRESENTATION |                                 |                               |                                |

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| 01-02-2001 | Workflow - Complete WF Records for Drawings               |
| 08-31-2000 | Mail Notice of Allowance                                  |
| 08-31-2000 | Notice of Allowance Data Verification Completed           |
| 08-28-2000 | Notice of Allowability                                    |
| 06-22-2000 | Examiner Interview Summary Record (PTOL - 413)            |
| 06-22-2000 | Case Docketed to Examiner In GAU                          |
| 06-22-2000 | Date Forwarded to Examiner                                |
| 06-08-2000 | Response after Non-Final Action                           |
| 06-08-2000 | Request for Extension of Time - Granted                   |
| 02-16-2000 | New or Additional Drawing Filed                           |
| 02-03-2000 | Mall Non-Final Rejection                                  |
| 01-31-2000 | Non-Final Rejection                                       |
| 03-22-1999 | Case Docketed to Examiner in GAU                          |
| 02-12-1999 | Application Dispatched from OIPE                          |
| 02-11-1999 | Application is Now Complete                               |
| 12-07-1998 | Notice Mailed-Application Incomplete-Filing Date Assigned |
| 11-24-1998 | IFW Scan & PACR Auto Security Review                      |
| 11-18-1998 | Initial Exam Team nn                                      |



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### Patent Assignment Abstract of Title

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Total Assignments: 5

Patent #: 5185707 Issue Dt: 02/06/2001 Application #: 09192164 Filing Dt: 11/13/1998

Inventors: SHAWN SMITH, HARI BALACHANDRAN, JASON PARKER

Title: 1C TEST SOFTWARE SYSTEM FOR MAPPING LOGICAL FUNCTIONAL TEST DATA OF LOGIC INTEGRATED CIRCUITS TO

PHYSICAL REPRESENTATION

Assignment: 1

Reel/Frams: 014805/0440 Recorded: 07/01/2004 pages: 3

Conveyance: MERGER (SEE DOCUMENT FOR DETAILS).

Assignor: KNIGHTS IECHNOLOGY, INC. Exec Dt: 12/23/1998

Assignee: ELECTROGLASS, INC.

6024 SILVER VALLEY CREEK ROAD
SAN JOSE, CALIFORNIA 95138

Correspondent: MICHAEL O. SCHEINBERG

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Assignment: 2

Reel/Frame: 00<u>9743/0549</u> Recorded: 02/05/1999 Pages: 3

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignor: SMITH, SHAWN Exec Dt: 01/14/1999

Assignee: KNIGHTS TECHNOLOGY, INC.

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Correspondent: BURNS, DOANE, SWECKER & MATHIS, L.L.P.

MICHAEL J. URE P.O. BOX 1404

ALEXANDRIA, VIRGINIA 22313-1404

Assignment: 3

Real/Frame: 009733/0608 Recorded: 01/26/1999 Pages: 5

Conveyance: ASSIGNMENT OF ASSIGNORS INTEREST (SEE DOCUMENT FOR DETAILS).

Assignors: BALACHANDRAN\_HARI Exec Dt: 01/15/1999

PARKER\_JASON Exec Dt: 01/15/1999

Assignee: TEXAS INSTRUMENTS INCORPORATED

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Correspondent: TEXAS INSTRUMENTS INC.
CHRISTOPHER L. MAGINNISS

P.O. BOX 655474, M.S. 3999 DALLAS, TX 75265

Assignment: 4

Recorded: 07/01/2004 Pages: 6

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Assignor: ELECTROGLASS, INC Exec Dt: 08/05/2003

Assignee: FEL COMPANY

5350 NE DAWSON CREEK DRIVE HILLSBORO, OREGON 97124-5793

Correspondent: MICHAEL O. SCHEINBERG

I

P.O. BOX 164140 AUSTIN, TX 78745-4140

Assignment: 5

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Conveyance: Additional Property (are pocument for pervicus).

Assignee: FEI COMPANY

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HILLSBORO, OREGON 97124-5793

Correspondent: MICHAEL O. SCHEINBERG

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